

John K. Moulton Ph.D.

Professional Preparation

| Institution | Major | Degree | Year |
|-----------------------|------------|--------|------|
| Clemson University | Entomology | B.S. | 1989 |
| Clemson University | Entomology | M.S. | 1992 |
| University of Arizona | Entomology | Ph.D. | 1997 |

Academic/Professional Appointments

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| 1990–1992 | Graduate Research Assistant; Clemson University, Clemson, SC |
| 1992–1997 | Graduate Research Assistant; The University of Arizona, Tucson, AZ |
| 1997–2001 | Extension Associate; University of Arizona, Tucson, AZ |
| 2001–2002 | Postdoctoral Research Associate; North Carolina State University, Raleigh, NC |
| 2003–2009 | Assistant Professor; Department of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN |
| 2009–present | Associate Professor; Department of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN |

Research Emphasis

Traditional and molecular systematics of Diptera, chiefly Blephariceridae, Dixidae, Simuliidae, Tachinidae, and Thaumaleidae

Teaching Responsibilities

EPP 548, Taxonomy of Adult Insects, The University of Tennessee. Fall, odd-numbered years

EPP 552, Insect Morphology, The University of Tennessee. Spring, even-numbered years

Research Funding (2009–current)

1. *The Sequatchie Caddisfly, Glyphopsyche sequatchie (Trichoptera: Limnephilidae): Bionomics, Genetic Diversity, and Gene Flow.* United States Fish & Wildlife Service. 08/01/2014– 07/31/2017. \$45,071. *Principal Investigator.*
2. *Collaborative Research: The Phylogeny and Evolution of World Tachinidae (Diptera).* United States National Science Foundation (DEB-1146290). \$189,968. 02/15/2012–01/31/2015. *Principal Investigator.*
3. *Action and Evolution of Genes in dipteran JH signaling.* NIH Exploratory/Developmental Research Grant Program (c/o Ohio State University Research Foundation. \$110,309. 01/15/2011–08/31/2012. *Principal Investigator.*
4. *The Greenbrier Valley/Greater Newport black fly suppression program.* Tennessee Department of Agriculture. \$30,000. 09/15/2010–12/31/2011. *Principal Investigator.*
5. *MIDGEPEET: A Collaborative Effort to Increase Taxonomic Expertise in Understudied Families of Nematoceran Diptera.* United States National Science Foundation (DEB-0933218). \$750,000. 09/1/2009–08/31/2014. *Co-Principal Investigator with P.H. Adler, G.W. Courtney, P. Cranston, and B. Sinclair.* (\$253,306 to JKM).
6. *Discovery and Prediction of Hidden Biodiversity in Black Flies (Diptera: Simuliidae).* United States National Science Foundation (DEB-ARRA-10030891). \$498,863 (\$126,754 to JKM) 08/01/2009–07/31/2015. *Co-Principal Investigator with P.H. Adler & J.W. McCreadie.*
7. Moulton, J.K. 2009. Relative size of and gene flow between populations of the endangered Sequatchie caddisfly, *Glyphopsyche sequatchie* (Trichoptera: Limnephilidae). United States Fish & Wildlife Service Flex Fund. \$31,000. 09/15/2009–12/31/2011. *Principal Investigator.*

Peer-reviewed Publications (2009–present)

1. Craig, D.A., D.C. Currie, L.H. Gil-Azevedo, **J.K. Moulton** (2019) *Austrocnephia*: a new genus for a segregate of Australian ‘*Paracnephia*’ (Diptera: Simuliidae). *Zootaxa* (in press).
2. Stireman, J.O., P. Cerretti, J.E. O’Hara, J.D. Blaschke, **J.K. Moulton**. (2019) Molecular phylogeny and evolution of world Tachinidae (Diptera). *Molecular Phylogenetics and Evolution* (in press). DOI: [10.1016/j.ympev.2018.12.002](https://doi.org/10.1016/j.ympev.2018.12.002)
3. *Blaschke, J.D., J.E. O’Hara, **J.K. Moulton**. 2019. Biodiversity Survey and DNA Barcoding of the Phasiinae (Diptera: Tachinidae) of Great Smoky Mountains National Park, USA. *Proceedings of the Entomological Society of Washington*, 121: 1–15. DOI: [10.4289/0013-8797.121.1.1](https://doi.org/10.4289/0013-8797.121.1.1)
4. *Blaschke, J.D., J.O. Stireman III, P. Cerretti, J.E. O’Hara, **J.K. Moulton**. 2018. Molecular phylogenetics and piercer evolution in the bug-killing flies (Diptera: Tachinidae: Phasiinae). *Systematic Entomology* 43: 218–238. DOI: [10.1111/syen.12272](https://doi.org/10.1111/syen.12272)
5. Craig, D.A., D.C. Currie, **J.K. Moulton**. 2018. Reassignment of Western Australia *Paracnephia gladiator* Moulton & Adler to a new genus, *Bunyipellum* (Diptera: Simuliidae). *Zootaxa* 4375(3): 341–357. DOI: [10.11646/zootaxa.4375.3.3](https://doi.org/10.11646/zootaxa.4375.3.3)
6. Craig, D.A., D.C. Currie, **J.K. Moulton**. 2018. *Nothogreniera* new genus, for two species of Australian “*Paracnephia*” (Diptera: Simuliidae). *Zootaxa* 4444(4): 351–380. DOI: [10.11646/zootaxa.4444.4.1](https://doi.org/10.11646/zootaxa.4444.4.1)
7. Currie, D.C., D.A. Craig, **J.K. Moulton**. 2018. A new genus, *Protaustrosimulium*, for four species of Australian black flies (Diptera: Simuliidae). *Zootaxa* 4521(3): 301–334. DOI: [10.11646/zootaxa.4521.3.1](https://doi.org/10.11646/zootaxa.4521.3.1)
8. **Moulton, J.K.** 2018. Rediscovery of *Dixa repanda* Peters and description of its putative sister species, *Dixa falcata* sp. nov., from the south-central United States (Diptera: Dixidae). *Zootaxa* 4459(1): 171–178. DOI: [10.11646/zootaxa.4459.1](https://doi.org/10.11646/zootaxa.4459.1)
9. **Moulton, J.K.**, D.C. Currie, D.A. Craig. 2018. A new genus, *Ectemnoides*, for seven species of Australian Gondwanan Simuliidae (Diptera) with description of a novel form of larval attachment. *Insect Systematics and Diversity* 2(4): 1–54. DOI: [10.1093/isd/ixy009](https://doi.org/10.1093/isd/ixy009)
10. Oren, E, W.E. Klingeman, R. Gazis, **J.K. Moulton**, P.L. Lambdin, M. Coggeshall, J. Hulcr, S. Seybold, D. Hadziabdic. 2018. A novel molecular toolkit for rapid detection of the pathogen and primary vector of thousand cankers disease. *PlosOne* 13(1): e0185087. DOI: [10.1371/journal.pone.0185087](https://doi.org/10.1371/journal.pone.0185087)
11. Phillips, G., R.J. Pivar, X. Sun, **J.K. Moulton**, E.C. Bernard, 2018. *Stauratostoma shelleyi* n. gen., n. sp. (Nematoda: Rhabditida: Thelastomatidae) from Appalachian polydesmid millipedes (Polydesmidae: Xystodesmidae). *Journal of Nematology* 50(2): 133–146. DOI: [10.21307/jofnem-2018-023](https://doi.org/10.21307/jofnem-2018-023)
12. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2018. Revision of the western Nearctic *Androprosopa* (Diptera: Thaumaleidae) and descriptions of three new species. *Insect Systematics and Evolution* DOI: [10.1163/1876312X-00002189](https://doi.org/10.1163/1876312X-00002189)
13. *Pivar, R.J., L.C. Pinho, W.E. Klingeman, **J.K. Moulton**, B.J. Sinclair. 2018. A new genus and species, and first record of the family Thaumaleidae (Diptera) from Brazil. *Canadian Entomologist* 150: 481–494. DOI: [10.4039/tce.2018.29](https://doi.org/10.4039/tce.2018.29)
14. Craig, D.A., **J.K. Moulton**, D.C. Currie. 2017. Taxonomic revision of *Paraustrosimulium* Wygodzinsky & Coscaron: reassignment of *Austrosimulium colboi* and description of *P. obcidens* from Western Australia. *Zootaxa* 4337(4): 451–492. DOI: [10.11646/zootaxa.4337.4.1](https://doi.org/10.11646/zootaxa.4337.4.1)
15. **Moulton, J.K.** 2017. The true identity of *Dixa modesta* Johannsen (Diptera: Dixidae) resolved: synonymy of *Dixa similis* Johannsen, designation of the *Dixa ubiquita* species group, and description of three new eastern Nearctic species. *Zootaxa* 4216(3): 247–260. DOI: [10.11646/zootaxa.4216.3.3](https://doi.org/10.11646/zootaxa.4216.3.3)
16. Flint, O.S., M.A. Floyd, **J.K. Moulton**. 2016. A new species of *Oecetis* McLachlan (Trichoptera: Leptoceridae) from the Sandhills region of South Carolina, USA. *Zoosymposia* 10: 188–192. DOI: [10.11646/zoosymposia.10.1.15](https://doi.org/10.11646/zoosymposia.10.1.15)
17. Greenwalt, D.E., **J.K. Moulton**. 2016. The first fossil New World Dixidae with a critical discussion of generic definitions. *Palaeontologia Electronica* 19.3.55A: 1–32.
18. Hajek, A.E., A. Gryganskyi, T. Bittner, J.K. Lieberr, J.H. Lieberr, A.B. Jensen, **J.K. Moulton**, R.A. Humber. 2016. Phylogenetic placement of two species known only from resting spores: *Zoophthora independentia* sp. nov. and *Z. porteri* comb nov. (Entomophthorales: Entomophthoraceae). *Journal of Invertebrate Pathology* 140: 68–74. DOI: [10.1016/j.jip.2016.09.002](https://doi.org/10.1016/j.jip.2016.09.002)

19. **Moulton, J.K.** 2016. The *Dixa inextricata* Dyar & Shannon (Diptera: Dixidae) species group, with two new cryptic species from the eastern Nearctic Region. *Zootaxa* 4121(4): 458–472. DOI: [10.11646/zootaxa.4121.4.6](https://doi.org/10.11646/zootaxa.4121.4.6)
20. Phillips, G.J., E.C. Bernard, R.J. Pivar, **J.K. Moulton**, R.M. Shelley. 2016. *Coronostoma claireae* n. sp. (Rhabditida: Oxyuridomorpha: Coronostomatidae) from *Narceus gordanus* (Chamberlain, 1943) (Diplopoda: Spirobolida) in Ocala National Forest, Florida. *Journal of Nematology* 48(3): 159–169. DOI: [10.21307/jofnem-2017-023](https://doi.org/10.21307/jofnem-2017-023)
21. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2016. A new species of *Austrothaumalea* Tonnoir from Australia (Diptera: Thaumaleidae). *Zootaxa* 4132(4): 594–597. DOI: [10.11646/zootaxa.4132.4.12](https://doi.org/10.11646/zootaxa.4132.4.12)
22. Curler, G.R., J.K. Moulton, R.I. Madriz. 2015. Redescription of *Aposycorax chilensis* (Tonnoir) (Diptera, Psychodidae, Sycoracinae) with the first identification of a blood meal host for the species. *Zootaxa* 4048(1): 114–126. DOI: [10.11646/zootaxa.4048.1.7](https://doi.org/10.11646/zootaxa.4048.1.7)
23. *Hansen, J.A., **J.K. Moulton**, W.E. Klingeman, J.B. Oliver, M.T. Windham, R.N. Trigiano, M.E. Reding. 2015. Molecular systematics of the *Chrysobothris femorata* species group (Coleoptera: Buprestidae). *Annals of the Entomological Society of America* 108(3): 1–14. DOI: [10.1093/aesa/sav080](https://doi.org/10.1093/aesa/sav080)
24. *Smith, C., **J.K. Moulton**, E.C. Bernard. 2015. Multiple invasions of the Nearctic Region by the springtail *Orchesella cincta* (Entomobryidae). *The Great Lakes Entomologist* 48(3-4): 103–110. <https://scholar.valpo.edu/tgle/vol48/iss3/1>
25. Winkler, I.S., J.D. Blaschke, D.J. Davis, J.O. Stireman, J.E. O'Hara, P. Cerretti, **J.K. Moulton**. 2015. Explosive radiation or uninformative genes? Origin and early diversification of tachinid flies (Diptera: Tachinidae). *Molecular Phylogenetics and Evolution* 88: 38–54. DOI: [10.1016/j.ympev.2015.03.021](https://doi.org/10.1016/j.ympev.2015.03.021)
26. Hadziabdic, D., P.A. Wadl, M.E. Staton, W.E. Klingeman, **J.K. Moulton**, J.W. Pscheidt, G.J. Wiggins, J.F. Grant, P.L. Lambdin, M.T. Windham, M. Faccoli, P. Marten, R.N. Trigiano. 2015. Development of microsatellite loci in *Pityophthorus juglandis*, a vector of thousand cankers disease in *Juglans* spp. *Conservation Genetics Resources*. DOI: [10.1007/s12686-014-0388-0](https://doi.org/10.1007/s12686-014-0388-0)
27. *Senatore, G.L., E.A. Alexander, P.H. Adler, **J.K. Moulton**. 2014. Molecular systematics of the *Simulium jenningsi* species group (Diptera: Simuliidae), with three new fast-evolving nuclear genes for phylogenetic inference. *Molecular Phylogenetics and Evolution* 75: 138–48. DOI: [10.1016/j.ympev.2014.02.018](https://doi.org/10.1016/j.ympev.2014.02.018)
28. Baumann, A.A., J.B. Benoit, V. Michalkova, P. Mireji, G.M. Attardo, **J.K. Moulton**, T.G. Wilson, S. Aksoy. 2013. Juvenile hormone and insulin suppress lipolysis between periods of lactation during tsetse fly pregnancy. *Molecular and Cellular Endocrinology* 372(1-2): 30–41. DOI: [10.1016/j.mce.2013.02.019](https://doi.org/10.1016/j.mce.2013.02.019)
29. *Curler, G.R., **J.K. Moulton**. 2012. A review of Nearctic *Clytocybus* (Diptera, Psychodidae, Psychodinae). *Canadian Entomologist* 144: 186–195. DOI: [10.4039/tce.2012.16](https://doi.org/10.4039/tce.2012.16)
30. *Curler, G.R., **J.K. Moulton**. 2012. Phylogeny of psychodid subfamilies (Diptera: Psychodidae) inferred from nuclear DNA sequences with a review of morphological evidence for relationships. *Systematic Entomology* 37: 603–616. DOI: [10.1111/j.1365-3113.2012.00634.x](https://doi.org/10.1111/j.1365-3113.2012.00634.x)
31. Floyd, M.A., **J.K. Moulton**, G.A. Schuster, C.R. Parker, J. Robinson. 2012. An annotated checklist of the caddisflies (Insecta: Trichoptera) of Kentucky. *Journal of the Kentucky Academy of Science* 73(1): 4–40. DOI: [10.3101/1098-7096-73.1.4](https://doi.org/10.3101/1098-7096-73.1.4)
32. Haddow, A.D., **J.K. Moulton**. 2012. Horse flies (Diptera: Tabanidae) of the Great Smoky Mountains National Park. *Proceedings of the Entomological Society of Washington* 114(1): 125–141. DOI: [10.4289/0013-8797.114.1.125](https://doi.org/10.4289/0013-8797.114.1.125)
33. *Hansen, J.A., W.E. Klingeman, **J.K. Moulton**, J.B. Oliver, M.T. Windham, A. Zhang, R.N. Trigiano. 2012. DNA fingerprinting of the Synanthedonini (Lepidoptera: Sesiidae). *Annals of the Entomological Society of America*. Volume 105(4): 520–528. DOI: <https://doi.org/10.1603/AN11028>
34. *Hansen, J.A., W.E. Klingeman, **J.K. Moulton**, J.B. Oliver, M.T. Windham, A. Zhang. 2012. New state and host plant records for metallic wood boring beetles (Coleoptera: Buprestidae) in Tennessee, USA. *Coleopterists Bulletin* 66(4): 1–7. DOI: [10.1649/072.066.0407](https://doi.org/10.1649/072.066.0407)
35. *Jacobson, A.J., G.R. Curler, G.W. Courtney, **J.K. Moulton**. 2011. New species of net-winged midges of the genus *Blepharicera* Macquart (Diptera: Blephariceridae) from eastern North America. *Systematic Entomology* 36: 768–800. DOI: [10.1111/j.1365-3113.2011.00595.x](https://doi.org/10.1111/j.1365-3113.2011.00595.x)
36. Killmaster, L.F., E.W. Howerth, **J.K. Moulton**, P.F. Smith, D.E. Stallknecht, D.G. Mead. 2011. Apparent disappearance of vesicular stomatitis New Jersey virus on Ossabaw Island, Georgia. *Vector-Borne and Zoonotic Diseases* 11(5): 559–565. DOI: [10.1089/vbz.2010.0083](https://doi.org/10.1089/vbz.2010.0083)

37. Park, K.-H., E.C. Bernard, **J.K. Moulton**. 2011. Three New Species of *Pogonognathellus* (Collembola: Tomoceridae) from the United States. *Zootaxa* 3070: 1–14. DOI: [10.11646/zootaxa.3070.1.1](https://doi.org/10.11646/zootaxa.3070.1.1)
38. Baird, R.E., P.A. Wadl, **J.K. Moulton**, T. Allen, D. McNeill, X. Wang, T.A. Rinehart, H.K. Abbas, T. Shier, R.N. Trigiano. 2010. Variability of United States isolates of *Macrophomina phaseolina* based on simple sequence repeats and cross genus transferability to related Botryosphaeraceae genera. *Mycopathologia* DOI: [10.1007/s11046-101-9308-3](https://doi.org/10.1007/s11046-101-9308-3)
39. *Curler, G.R., **J.K. Moulton**. 2010. Descriptions of three new species of Psychodidae (Diptera) from the southeastern United States. *Zootaxa* 2524: 51–62. DOI: [10.5281/zenodo.196378](https://doi.org/10.5281/zenodo.196378)
40. *Curler, G.R., **J.K. Moulton**. 2010. Contributions to Nearctic *Stupkaiella* Vaillant (Diptera: Psychodidae). *Zootaxa* 2397: 48–60. DOI: [10.5281/zenodo.194007](https://doi.org/10.5281/zenodo.194007)
41. Felderhoff, K.L., E.C. Bernard, **J.K. Moulton**. 2010. Survey of *Pogonognathellus* Börner (Collembola: Tomoceridae) in the southern Appalachians based on morphological and molecular data. *Annals of the Entomological Society of America* 103(4): 472–491. DOI: [10.1603/AN09105](https://doi.org/10.1603/AN09105)
42. *Hansen, J.A., E.C. Bernard, **J.K. Moulton**. 2010. A defensive behavior of *Acerentulus confinis* (Berlese) (Protura: Acerentomidae). *Proceedings of the Entomological Society of America* 112(1): 43–46. DOI: [10.4289/0013-8797-112.1.43](https://doi.org/10.4289/0013-8797-112.1.43)
43. *Hansen, J.A., W.E. Klingeman, **J.K. Moulton**. 2010. First record of *Alcathoe carolinensis* (Lepidoptera: Sesiidae) collected in Tennessee. *Florida Entomologist* 93(2): 321–22. DOI: [10.1653/024.093.0230](https://doi.org/10.1653/024.093.0230)
44. Wadl, P.A., X. Wang, **J.K. Moulton**, S.C. Hokanson, J.A. Skinner, T.A. Rinehart, S.M. Reed, V.R. Pantalone, R.N. Trigiano. 2010. Transfer of flowering and kousa dogwood simple sequence repeats (SSRs) to selected *Cornus* (Cornaceae) species. *Journal of the American Society of Horticultural Science* 135: 279–288. DOI: [10.21273/JASHS.135.3.279](https://doi.org/10.21273/JASHS.135.3.279)
45. Fajolu, O.L., R.-H. Wen, A.S. Windham, M.T. Windham, **J.K. Moulton**, M.R. Hajimorad. 2009. Genetic variability and phylogenetic analyses of hosta virus X. *Archives of Virology* 154: 1909–1916. DOI: [10.1007/s00705-009-0522-6](https://doi.org/10.1007/s00705-009-0522-6)
46. Coleman, R.E., L.P. Hochberg, J.L. Putnam, K.I. Swanson, J.S. Lee, J.C. McAvin, A.S. Chan, M.L. O’Guinn, J.R. Ryan, R.A. Wirtz, **J.K. Moulton**, K. Dave, M.K. Faulde. 2009. Use of vector diagnostics during military deployments: Recent experience in Iraq and Afghanistan. *Military Medicine* 174: 904–920. DOI: [10.7205/MILMED-D-00-2509](https://doi.org/10.7205/MILMED-D-00-2509)
47. Coleman, R.E., K.I. Swanson, L.P. Hochberg, J.S. Lee, J.C. McAvin, **J.K. Moulton**, D.O. Eddington, M. Moodie, L. Gilmore, W. Gilmore, J.L. Groebner, M.L. O’Guinn, J.L. Putnam. 2009. Impact of phlebotomine sand flies on U.S. military operations at Tallil Air Base, Iraq: 4. Detection and identification of *Leishmania* parasites in sand flies. *Journal of Medical Entomology* 46(3): 649–663. DOI: [10.1603/033.046.0333](https://doi.org/10.1603/033.046.0333)
48. Haddow, A.D., **J.K. Moulton**, R.R. Gerhardt, L.J. McCuiston, C.J. Jones. 2009. Description of the egg of *Ochlerotatus japonicus japonicus* (Diptera: Culicidae) using variable pressure scanning electron microscopy. *Journal of Medical Entomology* 46: 9–14. DOI: [10.1603/033.046.0102](https://doi.org/10.1603/033.046.0102)

Other Publications (2011–present)

1. Stireman, J.O., J.E. O’Hara, **J.K. Moulton**, P. Cerretti, I.S. Winkler, J.D. Blaschke, Z.L. “Kai” Burington. 2015. Phylogeny of World Tachinidae Project: continuing progress towards a phylogeny of Tachinidae. *The Tachinid Times* 28: 4-7.
2. Winkler, I.S., J.O. Stireman, **J.K. Moulton**, J.E. O’Hara, P. Cerretti, J.D. Blaschke. 2014. Progress towards a phylogeny of world Tachinidae. Year 2. *The Tachinid Times* 27: 11
3. Stireman, J.O., J.E. O’Hara, **J.K. Moulton**, P. Cerretti, I.S. Winkler. 2013. Progress towards a phylogeny of world Tachinidae. Year 1. *The Tachinid Times* 26: 4–9.

Invited Presentations and Contributed Papers (2011–present) (*Mentored student)

1. **Moulton, J.K.** 2018. Systematics of the meniscus midges (Diptera: Dixidae) – molecular phylogenetics of world taxa and highlights from revisionary studies of Nearctic *Dixa* Meigen. 9th International Congress of Dipterology. November 25–30, Windhoek, Namibia (w/abstract).
2. **Moulton, J.K.** 2018. Vignettes from revisionary and molecular phylogenetic studies of meniscus midges (Dixidae) and black flies (Simuliidae). Department of Entomology Fall Seminar Series. 17 September 2018. Iowa State University, Ames, IA.

3. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2018. A first phylogeny of world Thaumaleidae (Diptera). 9th International Congress of Dipterology. November 25–30, Windhoek, Namibia (w/abstract).
4. **Moulton, J.K.** 2017. Molecular phylogenetics of *Simulium* Latrielle. 15th Annual Meeting of the North American Black Fly Association. March 1–3, Harrisburg, PA.
5. **Moulton, J.K.** 2017. Revisionary studies of Nearctic Dixidae: the *Dixa rudis* and *D. fusca* species groups. 65th Annual Meeting of the Entomological Society of America. November 5–8, Denver, CO.
6. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2017. Revision of the South American Thaumaleidae (Diptera). Joint meeting of the Entomological Societies of Canada and Manitoba, October 23. Winnipeg, Manitoba. (2nd place winner among graduate student presentations).
7. Cerretti, P., J.E. O’Hara, **J. Moulton**, J. Blaschke, J. Stireman. 2016. The evolution of reproductive strategies in tachinid parasitoids. Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
8. Hadziabic, D., R. Gazis, E. Oren, W. Klingeman, L. Vito, M.T. Windham, L. Poplawski, P.L. Lambdin, J.F. Grant, G.J. Wiggins, P. Wadl, B. Ownley, M. Staton, **J.K. Moulton**, P. Merten, J. Pscheidt, W. Cranshaw, M. Faccoli, P. Juzwik, M. Ginzel, R. Trigiano. 2016. Thousand Cankers Disease Research: The Good, the Bad and the Ugly. Symposium title: Wood borer-fungus relationships: the frontier of forest entomology. Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
9. **Moulton, J.K.** 2016. Resolution of two species complexes within *Dixa* Meigen (Diptera: Dixidae) in the southeastern United States. 90th Annual Meeting of the Southeastern Branch of the Entomological Society of America. March 13–16, Raleigh, NC.
10. **Moulton, J.K.** 2016. Revisionary studies of the Nearctic Dixidae (Diptera): the *Dixa inextricata* and *D. modesta* species complexes. Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
11. Oren, E., W. Klingeman, P.L. Lambdin, **J. Moulton**, M. Coggeshall, S. Seybold, D. Hadziabic. 2016. Rapid molecular detection of thousand cankers disease. Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
12. Oren, E., R. Gazis, W. Klingeman, P. Lambdin, **J. Moulton**, M. Coggeshall, S. Seybold, D. Hadziabic. 2016. Rapid Detection of Thousand Cankers Disease: Lets’ Save Walnuts. Annual Meeting of the Tennessee Entomological Society Meeting. October 6–7, Knoxville, TN.
13. Oren, E., R. Gazis, W. Klingeman, P. Lambdin, **J. Moulton** M. Coggeshall, S. Seybold, D. Hadziabic. 2016. A Molecular Detection Resource for Rapid Diagnosis of Thousand Cankers Disease: Overcoming Challenges. 20th Ornamental Entomology and Plant Pathology Workshop. October, Hendersonville, NC (Presented by W. Klingeman).
14. Oren, E, W. Klingeman, P. Lambdin, **J. Moulton**, M. Coggeshall, D. Hadziabic. 2016. A Novel Molecular Method for Rapidly Detecting Thousand Cankers Disease of Walnut. 74th Annual Meeting of the Southern Division of International Society of Arboriculture. March 19–22, Knoxville, TN.
15. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2016. Molecular Systematics and New Species of Nearctic *Androprosopa* Mik (Diptera: Thaumaleidae). Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
16. Skevington, J., J. Cumming, B. Sinclair, B. Wiegmann, S. Kelso, **J. Moulton**, B. Cassel, E. Lemmon, A. Lemmon. 2016. Unravelling the phylogeny of the lower Cyclorrhapha using morphology, Sanger sequencing, and anchored phylogenetic data. Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
17. Stireman, J., **J. Moulton**, P. Cerretti, J.E. O’Hara, I. Winkler, J.D. Blaschke. 2016. Phylogeny and diversification of world Tachinidae (Diptera). Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
18. *Blaschke J.D., **J.K. Moulton**. 2015. Biodiversity Survey and DNA Barcoding of the Phasiinae (Diptera: Tachinidae) in Great Smoky Mountains National Park. Discover Life in America, ATBI Conference. March 19–21, Gatlinburg, TN.

19. Fasbender, A., **J.K. Moulton**, G.W. Courtney. 2015. The Phylogeny of *Ptychoptera*. 14th Annual Meeting of the North American Dipterists Society. June 7–11, Red River Gorge, KY.
20. Hadziabdic, D., L. Vito, M. Windham, P. Lambdin, J. Grant, G. Wiggins, P. Wadl, B. Ownley, M. Staton, **J. Moulton**, P. Merten, W. Klingeman, J. Pscheidt, W. Cranshaw, N. Tisserat, M. Faccoli, R. Trigiano. 2015. Thousand Cankers Disease Research Progress in the United States and Italy. 5th International Workshop on Genetics of Tree-Parasite Interactions. August 23–28, Orleans, France. Oral Presentation, w/Abstract.
21. **Moulton, J.K.** 2015. The *Blepharicera williamsae* Alexander (Diptera: Blephariceridae) Conundrum: Cryptic Species and a Female Holotype. 89th Annual Meeting of the Southeastern Branch of the Entomological Society of America. March 15–18, Biloxi, Mississippi.
22. **Moulton, J.K.** 2015. Using genomic resources to identify and implement genes useful for addressing rapid divergences in Diptera. SysEB Section Symposium: New Approaches in Big-Data Phylogenetics: Data Harvest and Phylogenomic Analyses That Transform Current Systematic Practice. 63rd Annual Meeting of the Entomological Society of America. November 15–18, Minneapolis, MN.
23. **Moulton, J.K.** 2015. DNA fingerprinting reveals cryptic species within Dixidae and Blephariceridae. 14th Annual Meeting of the North American Dipterists Society. June 7–11, Red River Gorge, KY.
24. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2015. Molecular systematics of world Thaumaleidae and the Nearctic *Androprosopa*. 14th Annual Meeting of the North American Dipterists Society. June 7–11, Red River Gorge, KY.
25. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2015. Molecular systematics of Nearctic madicolous midges in the genus *Androprosopa* Mik (Diptera: Thaumaleidae). 63rd Annual Meeting of the Entomological Society of America. November 15–18, Minneapolis, MN.
26. Standish, C., J.F. Grant, **K. Moulton**, T. Matthews, J. Smith. 2015. Evaluation of bio-uptake of total mercury and methyl-mercury in terrestrial invertebrates. 63rd Annual Meeting of the Entomological Society of America. November 15–18, Minneapolis, MN.
27. Stireman, J.O., I.S. Winkler, P. Cerretti, J.E. O'Hara, **J.K. Moulton**, J.D. Blaschke. 2014. Towards a Molecular Phylogeny of World Tachinidae: A Progress Report. Evolution and Ecology of Parasitoid Diptera Symposium. 8th International Congress of Dipterology. August 10–15, Potsdam, Germany (w/Abstract).
28. Stireman, J.O., I.S. Winkler, D.J. Davis, **J.K. Moulton**, J.D. Blaschke, J.E. O'Hara, P. Cerretti. 2014. Whence the Tachinidae? Higher-level Phylogeny of Diptera Symposium, 8th International Congress of Dipterology. August 10–15, Potsdam, Germany (w/Abstract).
29. Cerretti, P., J.E. O'Hara, J.O. Stireman, D.J. Inclan, H. Shima, D.M. Wood, **J.K. Moulton**, I.S. Winkler. 2014. A morphological phylogeny of Tachinidae. Evolution and Ecology of Parasitoid Diptera Symposium. 8th International Congress of Dipterology. August 10–15, Potsdam, Germany (w/Abstract).
30. Curler, G.R., **J.K. Moulton**, R.I. Madriz. 2014. Redescription of *Aposycorax chilensis* (Tonnoir) (Diptera, Psychodidae, Sycoracinae) with the first identification of a blood meal host for the species. 8th International Congress of Dipterology. August 10–15, Potsdam, Germany (w/Abstract).
31. O'Hara, J.E., J.O. Stireman, P. Cerretti, **J.K. Moulton**, I.S. Winkler. 2014. Diversity and systematics of the world Tachinidae. Higher-level Phylogeny of Diptera Symposium. 8th International Congress of Dipterology. August 10–15, Potsdam, Germany (w/Abstract).
32. *Blaschke, J.D., I.S. Winkler, J.O. Stireman, J.E. O'Hara, P. Cerretti, **J.K. Moulton**. 2014. Molecular systematics of the parasitoid subfamily Phasiinae (Diptera: Tachinidae). 62nd Annual Meeting of the Entomological Society of America. November 16–19, Portland, OR. (w/Abstract)
33. Craig, D.A., D.C. Currie, **J.K. Moulton**. 2014. Giddy Mate! The Gondwanan Simuliidae of Australia. 12th Annual Meeting of the North American Black Fly Association. February 22–23. Athens, GA.
34. **Moulton, J.K.** 2014. Molecular systematic investigations within Simuliidae using the new powerful nuclear gene ECPI1: the *Simulium jenningsi* group, plus tidbits on relationships within *Simulium* s.l. and Simuliini. 12th Annual Meeting of the North American Black Fly Association. February 22–23. Athens, GA.
35. *Pivar, R.J., B.J. Sinclair, **J.K. Moulton**. 2014. Molecular Systematics of Nearctic Madicolous Midges in the Genus *Androprosopa* Mik (Diptera: Thaumaleidae). 62nd Annual Meeting of the Entomological Society of America. November 16–19, Portland, OR. (w/Abstract).

36. *Smith, C.S., E.C. Bernard, **J.K. Moulton**. 2014. *Orchesella celsa*: A hyper-variable species or a loosely defined species group? 62nd Annual Meeting of the Entomological Society of America. November 16–19, Portland, OR. (w/Abstract)
37. Walls, S., J.F. Grant, **J.K. Moulton**, T. Mathews. 2014. Correlations of benthic invertebrate community metrics and co-located sediment samples at the TVA Kingston Ash Release Site in Tennessee. Presentation #80142. 88th Annual Meeting of the Southeastern Branch of the Entomological Society of America. March 2–5. Greenville, SC.
38. Craig, D.A., D.C. Currie, **J.K. Moulton**. 2013. Giddy Mate! The Gondwanan Simuliidae of Australia. Joint Meeting of the Entomological Society of Ontario and Entomological Society of Canada. October 20–23. Guelph, Ontario, CANADA.
39. *Pivar, R.J., **J.K. Moulton**, B.J. Sinclair. 2013. DNA fingerprinting of and relationships among Nearctic madicolous midges in the genus *Androprosopa* (Diptera: Thaumaleidae). Joint Meeting of the Entomological Society of Ontario and Entomological Society of Canada. October 20–23. Guelph, Ontario, CANADA.
40. Stireman, J.O., D.J. Davis, P. Cerretti, J.E. O'Hara, **J.K. Moulton**. 2013. Extraordinary host-associated radiation in parasitic flies. 61st Annual Meeting of the Entomological Society of America. November 10–13, Austin, Texas.
41. Baumann, A.A., J.B. Benoit, V. Michalkova, P.O. Mireji, G.M. Attardo, **J.K. Moulton**, T. Wilson, S. Aksoy. 2012. Juvenile hormone and insulin signaling pathways interact to mediate lipid metabolism during tsetse pregnancy. 60th Annual Meeting of the Entomological Society of America. November 11–15, 2012. Knoxville, TN.
42. **Moulton, J.K.**, P.H. Adler, G.W. Courtney, P.S. Cranston, B.J. Sinclair. 2012. MIDGEPEET (NSF): Advancements in dipterological research and education. 60th Annual Meeting of the Entomological Society of America. Member Symposium: North American Dipterists Society Meeting. November 11–15, 2012. Knoxville, TN.
43. **Moulton, J.K.**, M.A. Floyd, S. Chance. 2012. Conservation Status of the Sequatchie Caddisfly (Trichoptera: Limnephilidae) – a Candidate for Federal Listing. Annual Meeting of the Society for Freshwater Sciences, Louisville, KY. May 22–26, 2012.
44. *Senatore, G.L., **J.K. Moulton**. 2012. Nuclear Fingerprinting: establishing identification methods for pest species in the *Simulium jenningsi* species group (Diptera: Simuliidae). Joint Meeting of the Southeastern and Southwestern Branches of the Entomological Society of America. Little Rock, AR. March 4–7, 2012.

Student Mentoring (2009–present)

Undergraduate

Lindsey Orrin (Scientific illustration). 2015–17.

Graduate students supervised

1. Jeremy Blaschke (M.S.; University of Tennessee)
2. Robert Pivar (M.S.; University of Tennessee)
3. Gail Senatore (M.S.; University of Tennessee)
4. Cathe Smith (M.S.; University of Tennessee)
5. Jeremy Blaschke (Ph.D.; University of Tennessee)
6. Greg Curler (Ph.D.; University of Tennessee)
7. Jason Hansen (Ph.D.; University of Tennessee)
8. Amanda Jacobson (Ph.D.; University of Tennessee)
9. Robert Pivar (Ph.D.; University of Tennessee)

Theses and Dissertations Directed

Alexander, E.A. 2007. Molecular phylogenetic analysis of the *Simulium jenningsi* species-group (Diptera: Simuliidae). M.S. Thesis. Entomology & Plant Pathology Department, The University of Tennessee. 61 pp.

- Blaschke, J.D. 2013. Molecular Systematics of the Subfamily Phasiinae (Diptera: Tachinidae). M.S. Thesis. Entomology & Plant Pathology Department, The University of Tennessee. 125 pp.
- Blaschke, J.D. 2016. Evolution and Phylogeny of the Parasitoid Subfamily Phasiinae (Diptera: Tachinidae). Ph.D. Dissertation. Entomology & Plant Pathology Department, The University of Tennessee. 181 pp.
- Curler, G.R. 2009. Morphological and molecular systematics of Psychodidae (Diptera). Ph.D. Dissertation. Entomology & Plant Pathology Department, The University of Tennessee. 125 pp.
- Hansen, Jason. 2010. Identification and phylogenetic characterization of select species of Buprestidae (Coleoptera) and Sesiidae (Lepidoptera) wood boring insect families occurring across the southeastern United States. Ph.D. Dissertation. Entomology & Plant Pathology Department, The University of Tennessee. 205 pp.
- Jacobson, A.J. 2010. Phylogenetic analysis of the Nearctic *Blepharicera* Macquart (Diptera: Blephariceridae) with an emphasis on the eastern *Blepharicera tenuipes* group Hogue. Ph.D. Dissertation. Entomology & Plant Pathology Department, The University of Tennessee. 134 pp.
- Pivar, R.J. 2015. Phylogenetic analysis and revision of the Nearctic *Androprosopa* Mik (Diptera: Thaumaleidae) with an emphasis on the western species. M.S. Thesis. Entomology & Plant Pathology Department, The University of Tennessee. 179 pp.
- Pivar, R.J. 2018. Molecular systematics of Thaumaleidae (Insecta: Diptera): The first phylogeny depicting intergeneric relationships and other taxonomic discoveries. Ph.D. Dissertation. Entomology & Plant Pathology Department, The University of Tennessee.
- Senatore, G.L. 2012. Nuclear fingerprinting identification of black fly species in the *Simulium jenningsi* species group (Diptera: Simuliidae). M.S. Thesis. Entomology & Plant Pathology Department, The University of Tennessee. 88 pp.

Graduate Student Committees

1. Brian Hendricks (M.S.; University of Tennessee; EPP)
2. Becky Lyon (M.S.; University of Tennessee; EPP)
3. Sandesh Shrestha (M.S.; University of Tennessee; EPP)
4. Chelsea Standish (M.S.; University of Tennessee; EPP)
5. Suzanne Young (M.S.; University of Tennessee; EPP)
6. Kai Burrington (Ph.D.; Wright State University; BIOSCI; **ongoing**)
7. Dylan Dittrich-Reed (Ph.D.; University of Tennessee; EEB)
8. Daniel Gobena (Ph.D.; University of Tennessee; EPP)
9. Andrew Haddow (Ph.D.; University of Tennessee; EPP)
10. Gary Phillips (Ph.D.; University of Tennessee; EPP; **ongoing**)
11. Jason Robinson (Ph.D.; University of Tennessee; EEB)
12. Sandesh Shrestha (Ph.D.; University of Tennessee; EPP)

Postdoctorals

Gregory Curler, Ph.D. (2009–10)
 Project: Systematics of moth flies (Diptera: Psychodidae)
 Support: NSF

Service (2009–present)

Professional/Societal

Peer Reviews: Routinely review manuscripts (~6 per year; more than 100 total in career) for the following scientific refereed journals: *Annals of the Entomological Society of America*, *Canadian Entomologist*, *Florida Entomologist*, *Genetics*, *Journal of Medical Entomology*, *Molecular Phylogenetics and Evolution*, *PLoS One*, *Proceedings of the Entomological Society of Washington*, *Zookeys*, & *Zootaxa*

Editorship: Associate Editor, *Zootaxa* (2006–2012 & 2014–present)

Committees/Symposiums:

2016–18 Awards Committee, Tennessee Entomological Society (Chair, 2016)

- 2016 Moderator (Gary Steck, Co-Moderator). Session 615: Contributed Papers: Morphology, Systematics, and Phylogeny: Diptera. Joint Meeting of the 25th International Congress of Entomology and 64th Annual Meeting of the Entomological Society of America. September 25–30, Orlando, FL.
- 2015 Symposium Co-Organizer & Moderator. SysEB Section Symposium: New Approaches in Big-Data Phylogenetics: Data Harvest and Phylogenomic Analyses That Transform Current Systematic Practice. 63nd Annual Meeting of the Entomological Society of America. November 15–18, Minneapolis, MN.
- 2014 Symposium Co-Chair, “Ecology and Evolution of Parasitoid Diptera”. 8th International Congress of Dipterology.

University

Faculty Senate (2016–2017)

College/Institute

UTIA Advisory Council (2017–current)
 EPP Department Head Search Committee (2012–13 & 2015–16)
 UTIA Teaching Metrics Committee (2009)

Departmental

Undergraduate Coordinator (2018–current)
 EPP Visibility Committee (2017–current), member
 Graduate Studies Committee (2015–current), member
 EPP Graduate Student Association Mentor (2016–present). 2016 “Small Organization of the Year” award winner for Y2016. Involved in all aspects for EPP GSA’s “Science Day” in 2016
 ENTO Curriculum Committee (2017), Co-chair (w/Karen Vail)
 ENTO Curriculum Committee (2011), Chair
 Arthropod Physiologist Search Committee (2005)

Honors and Awards

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|------------------------------------|------------------------------------|
| Alumni Fellowship | (Clemson University) |
| Gamma Sigma Delta Honor Society | |
| Golden Key National Honor Society | |
| J. Milbank Scholarship | (Clemson University) |
| J.H. Cochran Memorial Scholarship | (Clemson University) |
| K.L. Hays Award | (Entomological Society of America) |
| Terminix Scholarship | (Clemson University) |
| The Honor Society of Phi Kappa Phi | |
| The National Dean’s List | |
| Wade Stackhouse Fellowship | (Clemson University) |

Society Memberships

Entomological Society of America
 Entomological Society of Tennessee
 Entomological Society of Washington
 Sigma Xi Honor Society
 Society of Systematic Biologists